

Amendments of the Claims:

A detailed listing of all claims in the application is presented below. This listing of claims will replace all prior versions, and listings, of claims in the application. All claims being currently amended are submitted with markings to indicate the changes that have been made relative to immediate prior version of the claims. The changes in any amended claim are being shown by strikethrough (for deleted matter) or underlined (for added matter).

1. (Currently amended) A brain-wave adjustable bed, comprising: to adjust a slope of the bed 12 according to brain waves which

a) a bed having an upper surface, a lower surface, a head end, a foot end and sides between the head end and the foot end;

b) an ankles fixing device 14 is mounted adjacent the foot end of the bed; at one side thereof,

c) a bottom frame for supporting the bed, the bed being rotatably mounted to the bottom frame by a central hinge, so that the bed may rotate and which is capable of rotating within predetermined angles around a rotation the central hinge; 18 which is installed at one side of the lower surface of the bed, wherein the bed 12 comprises

d) a brain waves detection means 50 which is mounted at another side of the bed 12 comprising:, and which

i) a head set for a user lying on the bed is able to put on;

ii) a control section having an input coupled to the head set and an output displayed on a control panel; the output producing a signal representing brain waves of the user wearing the head set, the brain waves comprising at least alpha waves and beta waves;

iii) a frequency analyzer means for separating alpha wave waves and beta wave waves components in the brain waves, comprising an input coupled to the output of the control section of the brain waves detector, a filter for separating at least the

alpha waves from the signal on the output of the control section based upon a having predetermined frequency range from output signals of the brain waves detection means 50; and an output comprising at least an alpha signal proportional to an amplitude of alpha waves in the brain waves; and

e) means for adjusting the inclination of the bed 12, coupled to the bed and the frame, having a control input coupled to the output of the frequency analyzer of the brain waves detection means and a mechanical output which rotates the bed in response to a signal on the control input, so that the bed is rotated to a predetermined selected angle based upon the amplitude of at least the alpha signal so that the maximum alpha waves can be detected based on the alpha waves and the beta waves.

2. (Currently amended) The bed according to claim 1, wherein the adjustment means further comprises:

a control section 60 which outputs a rotation instruction so as to rotate the bed 12 by predetermined angles;

a hydraulic pressure driving section 62 which is installed below the bed 12 and which generates a hydraulic pressure signal based on the rotation instruction; and

a hydraulic pressure cylinder 40 of which one side is fixed to the bottom at a lower frame 16 to support lower part of the bed 12 and the other side is fixed to the on a lower surface of the bed 12, and which is capable of expanding or withdrawing according to the hydraulic pressure signal of the hydraulic pressure driving section 62.

3. (Currently amended) The bed according to claim 2, in which the means for adjusting the inclination of the bed rotates the bed at increasing angles from a horizontal to maximize the alpha signal wherein the control section outputs the rotation instruction so as to rotate the bed 12 clockwise or counterclockwise at 1[deg.] intervals in the range of 0[deg.] and 80[deg.],

and further comprises a timer 23 to set an operation time.

4. (Currently amended) The bed according to claim 2, wherein the control section further comprises means for converting a feedback signal of the hydraulic pressure cylinder 40 to a predetermined ~~an~~ inclination angle of the bed 12.

5. (Currently amended) The bed according to claim 4, ~~wherein~~ further comprising an inclination display section 22 for displaying the inclination angle ~~to be outputted by the converting means, and which is installed on one side of the bed 12.~~

6. (Currently amended) The bed according to claim 1, ~~wherein~~ further comprising means for displaying alpha waves and beta waves separated by the frequency analyzer separation means.

7. (Currently amended) A method to adjust a slope of a bed according to brain waves comprising the, ~~wherein the method comprises~~ steps of:

a) providing a brain-wave adjustable inclining the bed 12 to having an upper surface, a lower surface, a head end, a foot end, sides between the head end and the foot end and predetermined rotation reference angles around a [rotation] central hinge 48 mounted to the lower surface on one side of a lower part of the bed 12, the foot end having of which an ankles fixing device 44 is mounted thereon at one side (S10);

b) detecting brain waves from a brain waves detection means 50 which is mounted at the head end another side of the bed 12, and which is placed on a user of the bed is able to put on (S20);

c) separating alpha waves and beta waves having predetermined frequency range from the brain waves (S30) by means of a frequency analyzer;

d) rotating the bed ~~12 from the reference angle and monitoring in response to variations in the the variation of~~ alpha waves and beta waves ~~detected by the frequency analyzer in a real time~~; and

e) rotating the bed at increasing angles from the horizontal to maximize the alpha signal and resetting the bed toward the horizontal in response to increasing beta waves ~~maintaining the inclination of the bed 12 for predetermined period when the maximum alpha waves are detected~~ (S50).

8. (Cancelled)

9. (Currently amended) The method according to claim 7 6, further comprising the step of reducing the inclination angle of the bed ~~12~~ decrementally as an operation time approaches a predetermined maximum operation time set by a timer.

10. (New) The brain-wave adjustable bed of claim 1 wherein the output of the frequency analyzer further comprises a beta signal proportional to an amplitude of beta signals in the brain waves, and the means for adjusting the inclination of the bed rotates the bed to a predetermined angle based upon the amplitude of both the alpha signal and the beta signal.

11. (New) The brain wave adjustable bed of claim 10 in which the means for adjusting the inclination of the bed rotates the bed at increasing angles from a horizontal to maximize the alpha signal and resets the bed toward the horizontal based on an increasing amplitude of the beta signal.

12 (New) The bed of claim 1 further comprising a timer to set an operation time.